PATENT COOPERATION TREATY

PCT

REC'D 0 9 DEC 2003

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1008.P003PCT	FOR FURTHER ACTION	See Notification of Transmittal of International Prelimin Examination Report (Form PCT/IPEA/416).			
International Application No.	International Filing Date		Priority Date (day/month/year)		
PCT/SG03/00015	(day/month/year) 24 January 2003		1 April 2002		
International Patent Classification (IPC) or		d IPC			
Int. Cl. ⁷ B05C 17/02, 17/025, 17/035					
Applicant					
ER, Poh Leong					
•					
This international preliminary examina is transmitted to the applicant according	tion report has been prep g to Article 36.	ared by this Internati	onal Preliminary Examining Authority and		
2. This REPORT consists of a total of 3	sheets, including this c	over sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total	of 4 sheet(s).				
3. This report contains indications relating	g to the following items:	,	:		
I X Basis of the report					
П Priority					
III Non-establishment of o	pinion with regard to nov	elty, inventive step a	and industrial applicability		
IV Lack of unity of inventi	ion				
V X Reasoned statement und citations and explanation	X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cite					
VII Certain defects in the in	nternational application	•			
VIII Certain observations or	n the international applica	ation .	:		
Date of submission of the demand		Date of completion	of the report		
3 September 2003		20 November 2003			
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE	ATTA				
PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au		THARU FERNA	ANDO .		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG03/00015

1. With regard to the elements of the international application:* the international application as originally filed, pages filed with the demand, pages pages received on with the letter of	I.	E	lasis of the repor	t·			
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* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in t	5.						
report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).	*						
** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report	**	_					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG03/00015

v.	Reasoned statement under Article 35(2) with	regard to novelty, inventive step or industrial applicability; citations
	and explanations supporting such statement	

1.	Statement				
	Novelty (N)	Claims	1-22		YES
		Claims			NO
	Inventive step (IS)	Claims	1-22		YES
		Claims			NO ·
	Industrial applicability (IA)	Claims	1-22	•	YES
		Claims	•		NO

2. Citations and explanations (Rule 70.7)

NL 8301130 CA 2101124 US 5412832 GB 2143158

The present invention is a frusto-conically shaped paint applicator with a reservoir for paint that allows painting of corners and edges. The citations listed above appear to be the closest prior art, but this invention differs from them by achieving its objective in painting corners and edges without complicated internal mechanisms such as that of C3, having its own paint reservoir unlike C1 and C2, and having a reservoir that is internal to the applicator unlike C4.

Therefore the current invention appears novel and inventive over the prior art.

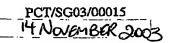
What is claimed is:

1. A paint roller comprising:

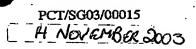
a frustoconically-shaped applicator having two opposite ends, a coupling portion disposed at one of said opposite ends, and an external surface between said two opposite ends, said frustoconically-shaped applicator being rotatable at said coupling portion about a rotary axis; said frustoconically-shaped applicator comprises a chamber for storing paint;

and at least one paint-absorbable member mounted to said external surface.

- The paint roller as claimed in Claim 1, and further comprising a movement coupler detachably coupled to said coupling portion.
- 3. The paint roller as claimed in Claim 2, wherein said movement coupler comprises a rotary connecting portion adapted to coact with said coupling portion for rotary movement about said rotary axis.
- 4. The paint roller as claimed in Claim 2, wherein said movement coupler comprises a pivotal connecting portion adapted to coact with a pivot mount of a handle for pivotal movement of said frustoconically-shaped applicator.
- 5. The paint roller as claimed in Claim 1, wherein said frustoconically-shaped applicator further comprises at least one closable inlet leading into said chamber.
- 6. The paint roller as claimed in Claim 5, wherein said at least one closable inlet is disposed at one of said opposite ends.
- 7. The paint roller as claimed in Claim; 1, wherein said chamber comprises at least one paint-permeable portion coupled to said at least one paint-absorbable member.



- 8. The paint roller as claimed in Claim 1, wherein one of said opposite ends is a coupling end, said coupling portion being formed at said coupling end.
- 9. The paint roller as claimed in Claim 8, wherein said coupling end has a planar cross-section smaller than a corresponding planar cross-section of the other opposite end.
- 10. The paint roller as claimed in Claim 9, wherein said coupling portion is disposed centrally relative to said planar cross-section of said coupling end.
- 11. The paint roller as claimed in Claim 1, and further comprising at least one abutment member mountable to one of said opposite ends.



12. A paint roller comprising:

a frustoconically-shaped applicator having two opposite ends, a coupling portion disposed at one of said opposite ends, and an external surface between said two opposite ends, said frustoconically-shaped applicator being rotatable at said coupling portion about a rotary axis;

at least one paint-absorbable member mounted to said external surface; a handle having a pivot mount;

and

a movement coupler detachably coupled to said coupling portion and to said pivot mount.

- 13. The paint roller as claimed in Claim 12, wherein said movement coupler comprises a rotary connecting portion adapted to coact with said coupling portion for rotary movement of said frustoconically-shaped applicator about said rotary axis.
- 14. The paint roller as claimed in Claim 12, wherein said movement coupler comprises a pivotal connecting portion adapted to coact with said pivot mount for pivotal movement of said frustoconically-shaped applicator.
- 15. The paint roller as claimed in Claim 12, wherein said frustoconically-shaped applicator comprises a chamber for storing paint.
- 16. The paint roller as claimed in Claim 15, wherein said frustoconically-shaped applicator further comprises at least one closable inlet leading into said chamber.
- 17. The paint roller as claimed in Claim 16, wherein said at least one closable inlet is disposed at one of said opposite ends.

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- 18. The paint roller as claimed in Claim 15, wherein said chamber comprises at least one paint-permeable portion coupled to said at least one paint-absorbable member.
- 19. The paint roller as claimed in Claim 12, wherein one of said opposite ends is a coupling end, said coupling portion being formed at said coupling end.
- 20. The paint roller as claimed in Claim 19, wherein said coupling end has a planar cross-section smaller than a corresponding planar cross-section of the other opposite end.
- 21. The paint roller as claimed in Claim 20, wherein said coupling portion is disposed centrally relative to said planar cross-section of said coupling end.
- 22. The paint roller as claimed in Claim 12, and further comprising at least one abutment member mountable to one of said opposite ends.

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